

Donor Service Area (DSA) as the First Unit of Allocation

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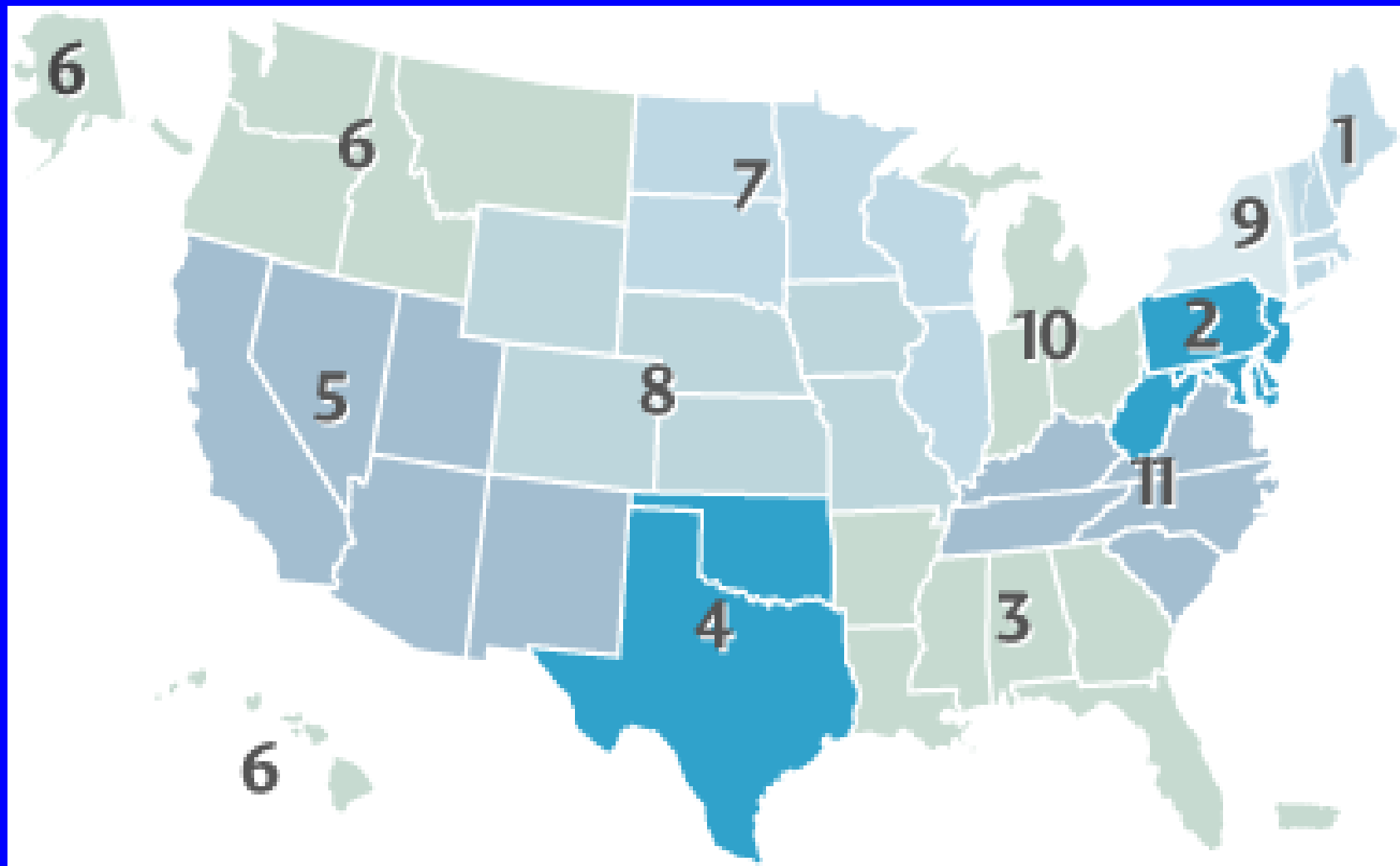
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Issue of Access



Final Rule

Performance Goals

- 1) standardized criteria for placing patients on transplant waiting lists,
- 2) standardized criteria for defining a patient's medical status, and
- 3) allocation policies that make most effective use of organs, especially by making them available whenever feasible to the most medically urgent patients who are appropriate candidates for transplantation.

Institute of Medicine Recommendations 1999

- **RECOMMENDATION 1:** *Establish Organ Allocation Areas for Livers.* OAAs should generally be established through sharing arrangements among organ procurement organizations to avoid disrupting effective current procurement activities.
 - Population Base of 9 million people

IOM Recommendations

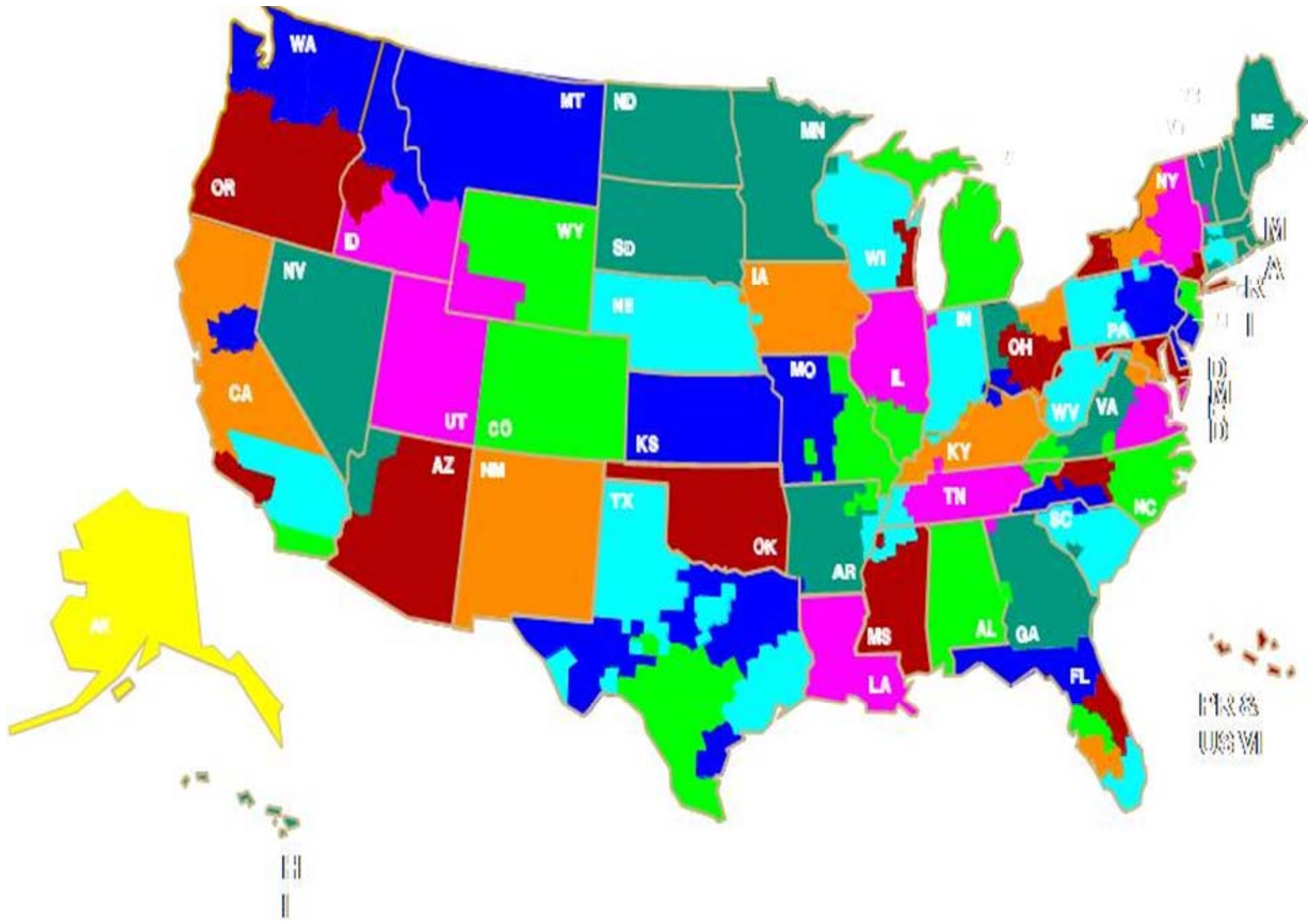
- **RECOMMENDATION 2:** *Discontinue Use of Waiting time as an Allocation Criterion for [Liver Transplant] Patients in Statuses 2B and 3.*
- **RECOMMENDATION 3:** *Exercise Federal Oversight.*
- **RECOMMENDATION 4:** *Establish Independent Scientific Review.*
- **RECOMMENDATION 5:** *Improve Data Collection and Dissemination.*

Final Rule IOM

- The final rule directs the OPTN to overcome as much as possible arbitrary geographic barriers to allocation that restrict the allocation of organs to patients with greatest medical urgency who are appropriate candidates for transplantation and that are not based on medical criteria. Broader sharing was an essential element of the IOM's findings.

Donor Service Areas

- Arbitrarily defined as area of OPO
- 59 OPOS
- Wide variability in size and population
 - 1.3 - 18.7 million population base
- Performance measures vary widely – Not Enforced
 - Consent rate
 - Conversion rate
 - Organs per donor



OPO Performance Metrics

	Distribution Across DSAs			
Metric	Mean	Median	Minimum	Maximum
Eligibles Reported	168.1	135.0	25.0	651.0
Total Donors Recovered	137.7	112.5	29.0	430.0
Total Organs Transplanted	416.5	344.0	80.0	1198.0
Consent Rate	70.4	71.4	37.5	88.2
Collaborative Conversion Rate	72.2	72.9	46.2	93.0
Conversion of Eligibles	68.3	68.9	45.3	88.2
Organs Transplanted Per Donor	3.0	3.0	2.3	3.8

OPO Performance Metrics

Metric	Distribution Across DSAs			
	Mean	Median	Minimum	Maximum
DCD Organs Transplanted Per Donor	2.0	2.0	1.0	3.0
ECD Organs Transplanted Per Donor	1.9	1.9	1.2	2.8
SCD Organs Transplanted Per Donor	3.6	3.7	2.9	4.4
Percent of Donors From SCDs	65.8	66.8	46.0	78.3
Percent of Donors From ECDs	23.4	22.9	10.0	44.1

Waitlist additions by MELD by Year

Allocation MELD/PELD Score at Listing	Year of Listing				Total
	2005	2006	2007	2008	
Status 1/1A/1B	791	607	595	570	2563
MELD/PELD <15	4869	4978	4967	5058	19872
MELD/PELD 15-19	2409	2385	2387	2335	9516
MELD/PELD 20-24	1213	1358	1320	1385	5276
MELD/PELD 25+	1593	1617	1709	1687	6606
Inactive	111	91	103	141	446
Total	10986	11036	11081	11176	44279

Waitlist at end of Year 2006 (2007 Annual Report)

Total	12,548
MELD < 15	9119
MELD 15-20	2412
MELD 21-30	417
MELD <u>≥</u> 30	50
IA/IB	9
HCC	180
Other Exceptions	151
PELD <u>≥</u> 15	56

2005-2008 Waitlist Removals by MELD

Reason	15- 19	20-25	> 25	1A/1B
TX	3897	8152	9894	1822
Too Sick	189 (1.5%)	229 (4%)	553(8%)	184
Died	488 (4%)	382 (7%)	969(14%)	264

1607 Transplants < MELD 15!!!! (400 per year)

Goals

- Shift 1607 livers MELD < 15 and some of 3897 livers MELD 15-19 into MELD > 20
- 1522 MELD ≥ 25 died or too sick
- 611 MELD $20 > 24$ died or too sick

Summary

- Livers going to less sick patients
 - Need more effective allocation
- Arbitrary geographic boundaries
 - Prevent access to Transplantation
- OPO Performance Measures
 - Not Enforced – limits access
- OPO Size
 - Wide variability limits access

Possible Options

- Eliminate DSA as first allocation unit
 - combine OPOs-small, under-performing
 - Population –based
- Tiered- regional sharing
 - MELD 20, 25, 30?
- “Super Regions”
 - Concentric rings
 - Combine existing regions into 4-6 regions
- Increase lowest eligible MELD score
 - Decrease transplants to those less ill
 - MELD 17